## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

Claim 1 (Currently Amended): A semiconductor device, comprising:

an insulating substrate having a surface on which <u>a first</u> an SiO<sub>2</sub> film is formed; and

a single-crystal silicon thin film substrate bonded with the insulating substrate on a partial region of the insulating substrate,

wherein the single-crystal silicon thin film substrate has a substantially uniform thickness and has a surface substantially free of damage,

the single-crystal silicon thin film has bonded thereto a second substrate includes an SiO<sub>2</sub> film formed on the surface of the single crystal silicon substrate bonded with the insulating substrate, and

the surface of the insulating substrate, where the <u>first SiO<sub>2</sub></u> film is formed, is bonded with the surface of the single-crystal silicon thin film substrate[,], where the <u>second SiO<sub>2</sub></u> film is formed.

Claim 2 (Currently Amended): The semiconductor device as defined in claim 1, wherein, in different regions on the insulating substrate, the [[a]] single-crystal silicon thin film and a non-single-crystal silicon thin film are provided.

Claim 3 (Currently Amended): The semiconductor device as defined in claim 1, wherein the single-crystal silicon thin film has substrate further includes a single-crystal silicon thin film having a thickness of not more than about 70nm.

Claim 4 (Currently Amended): The semiconductor device as defined in claim 1, wherein the single-crystal silicon thin film has substrate further includes a single crystal silicon thin film having a thickness of not more than about 20nm.

Claim 5 (Previously Presented): The semiconductor device as defined in claim 2, wherein the non-single-crystal silicon thin film comprises polycrystalline silicon.

Claim 6 (Withdrawn): The semiconductor device as defined in claim 2, wherein the non-single-crystal silicon thin film comprises continuous grain silicon.

Claim 7 (Withdrawn): The semiconductor device as defined in claim 2, wherein the non-single-crystal silicon thin film comprises amorphous silicon.

Claim 8 (Withdrawn): The semiconductor device as defined in claim 7, wherein a non-single crystal silicon thin-film transistor, which includes a gate insulating film made up of at least one insulating film including silicon nitride, is formed using the amorphous silicon thin film.

Claim 9 (Currently Amended): The semiconductor device as defined in claim 1, wherein the single-crystal silicon substrate further includes a single-crystal silicon thin film and a transistor formed using the single-crystal silicon thin film is arranged such that, from an

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insulating substrate side, a gate electrode, a gate insulating film, and the single-crystal silicon thin film are formed in this order.

Claim 10 (Previously Presented): The semiconductor device as defined in claim 9, wherein at least a part of the transistor formed using the single-crystal silicon thin film includes an interlayer insulating film and metal interconnects provided further on the single-crystal silicon thin film.

Claim 11 (Withdrawn): The semiconductor device as defined in claim 9, wherein the transistor formed using the single-crystal silicon thin film is arranged such that, from an insulating substrate side, an interlayer insulating film, a metal interconnects layer, an interlayer insulating film, a gate electrode, a gate insulating film, and the single-crystal silicon thin film are formed in this order, and in at least a part of the transistor, an interlayer insulating film and metal interconnects are further provided on the single-crystal silicon thin film.

Claim 12 (Previously Presented): The semiconductor device as defined in claim 1, wherein the insulating substrate comprises a high strain point glass including an alkaline-earth alumino-borosilicate glass.

Claim 13 (Previously Presented): The semiconductor device as defined in claim 1, wherein the insulating substrate comprises any one of a barium borosilicate glass, a barium alumino-borosilicate glass, an alkaline-earth alumino-borosilicate glass, a borosilicate glass, an alkaline-earth-zinc-lead-alumino-borosilicate glass, and an alkaline-earth-lead-alumino-borosilicate glass.

Claim 14 (Currently Amended): The semiconductor device as defined in claim 1, wherein a difference of linear expansion between the insulating substrate and the single-crystal silicon thin film substrate is about not more than 250ppm at temperatures in a range between substantially room temperature temperatures and 600°C.

Claim 15 (Previously Presented): The semiconductor device as defined in claim 1, wherein the insulating substrate comprises a high strain point glass whose strain point is not less than 500°C.

Claims 16 (Canceled).

Claim 17 (Withdrawn): A semiconductor device, comprising: an insulating substrate having a surface on which an SiO2 film is formed; and a single-crystal silicon substrate bonded with the insulating substrate,

wherein, the single-crystal silicon substrate includes a porous silicon layer and a single-crystal silicon thin film formed on the porous silicon layer and has a surface which is on a single-crystal silicon thin film side with respect to the porous silicon layer and on which an SiO2 film is formed,

the surface of the insulating substrate, where the SiO2 film is formed, is bonded with the surface of the single-crystal silicon substrate, where the SiO2 film is formed, and

a part of the single-crystal silicon substrate is separated at the porous silicon layer, and the porous silicon layer is removed from a remaining part of the single-crystal silicon substrate, the remaining part still being on the insulating substrate after the part is separated.

Claim 18 (Withdrawn): The semiconductor device as defined in claim 17, wherein, in different regions on the insulating substrate, the single-crystal silicon thin film and a non-single-crystal silicon thin film are formed.

Claim 19 (Withdrawn): The semiconductor device as defined in claim 17, wherein the single-crystal silicon thin film is not more than about 70nm thick.

Claim 20 (Withdrawn): The semiconductor device as defined in claim 17, wherein the single-crystal silicon thin film is not more than about 20nm thick.

Claim 21 (Withdrawn): The semiconductor device as defined in claim 18, wherein the non-single-crystal silicon thin film comprises polycrystalline silicon.

Claim 22 (Withdrawn): The semiconductor device as defined in claim 18, wherein the non-single-crystal silicon thin film comprises continuous grain silicon.

Claim 23 (Withdrawn): The semiconductor device as defined in claim 18, wherein the non-single-crystal silicon thin film comprises amorphous silicon.

Claim 24 (Withdrawn): The semiconductor device as defined in claim 23, wherein a non-single crystal silicon thin-film transistor, which includes a gate insulating film comprising at least one insulating film including silicon nitride, is formed using the amorphous silicon thin film.

Claim 25 (Withdrawn): The semiconductor device as defined in claim 17, wherein a transistor formed using the single-crystal silicon thin film is arranged such that, from an insulating substrate side, a gate electrode, a gate insulating film, and the single-crystal silicon thin film are formed in this order.

Claim 26 (Withdrawn): The semiconductor device as defined in claim 25, wherein at least a part of the transistor formed using the single-crystal silicon thin film includes an interlayer insulating film and a metal interconnects layer provided further on the single-crystal silicon thin film.

Claim 27 (Withdrawn): The semiconductor device as defined in claim 17, wherein the transistor formed using the single-crystal silicon thin film is arranged such that, from an insulating substrate side, an interlayer insulating film, a metal interconnects layer, an interlayer insulating film, a gate electrode, a gate insulating film, and the single-crystal silicon thin film are formed in this order, and in at least a part of the transistor, an interlayer insulating film and metal interconnects are further provided on the single-crystal silicon thin film.

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Claim 28 (Withdrawn): The semiconductor device as defined in claim 17, wherein the insulating substrate comprises a high strain point glass including an alkaline-earth aluminoborosilicate glass.

Claim 29 (Withdrawn): The semiconductor device as defined in claim 17, wherein the insulating substrate comprises any one of a barium borosilicate glass, a barium alumino-borosilicate glass, an alkaline-earth alumino-borosilicate glass, a borosilicate glass, an alkaline-earth-zinc-lead-alumino-borosilicate glass, and an alkaline-earth-lead-alumino-borosilicate glass.

Claim 30 (Withdrawn): The semiconductor device as defined in claim 17, wherein a difference of linear expansion between the insulating substrate and the single-crystal silicon substrate is about not more than 250ppm at temperatures in a range between substantially room temperatures and 600°C.

Claim 31 (Withdrawn): The semiconductor device as defined in claim 17, wherein the insulating substrate comprises a high strain point glass whose strain point is not less than 500°C.

Claim 32 (Withdrawn): The semiconductor device as defined in claim 17, wherein on a substantially entire surface of the insulating substrate, the single-crystal silicon thin film is formed.

Claims 33-42 (Canceled).

Claim 43 (Withdrawn): A semiconductor structure comprising: an insulating substrate having a surface on which a first SiO<sub>2</sub> film is formed; and a single-crystal silicon substrate bonded with the insulating substrate, wherein

the single-crystal silicon substrate includes a buried oxide layer, a hydrogen ion implantation section in which a distribution of hydrogen ions peaks in the buried oxide layer, and a single-crystal silicon thin film formed on the buried oxide layer, the single-crystal silicon substrate having a surface which is on a single-crystal silicon thin film side with respect to the buried oxide layer and on which a second SiO<sub>2</sub> film is formed, and

the surface of the insulating substrate on which the first SiO<sub>2</sub> film is formed is bonded with the surface of the single-crystal silicon substrate on which the second SiO<sub>2</sub> film is formed.

Claim 44 (Withdrawn): The semiconductor structure as defined in claim 43, wherein the single-crystal silicon substrate is bonded to only a portion of the surface of the insulating substrate on which the first SiO<sub>2</sub> film is formed.

Claim 45 (Withdrawn): The semiconductor structure as defined in claim 43, wherein the single-crystal silicon thin film has a thickness of not more than about 70nm.

Claim 46 (Withdrawn): The semiconductor structure as defined in claim 43, wherein the single-crystal silicon thin film has a thickness of not more than about 20nm.

Claim 47 (Withdrawn): The semiconductor structure as defined in claim 43, wherein the insulating substrate comprises a high strain point glass including an alkaline-earth alumino-borosilicate glass.

Claim 48 (Withdrawn): The semiconductor structure as defined in claim 43, wherein the insulating substrate comprises any one of a barium borosilicate glass, a barium alumino-borosilicate glass, an alkaline-earth alumino-borosilicate glass, a borosilicate glass, an alkaline-earth-zinc-lead-alumino-borosilicate glass, and an alkaline-earth-lead-alumino-borosilicate glass.

Claim 49 (Withdrawn): The semiconductor structure as defined in claim 43, wherein a difference of linear expansion between the insulating substrate and the single-crystal

silicon substrate is about not more than 250ppm at temperatures in a range between substantially room temperatures and 600°C.

Claim 50 (Withdrawn): The semiconductor structure as defined in claim 43, wherein the insulating substrate comprises a high strain point glass whose strain point is not less than 500°C.

Claim 51 (Currently Amended): A semiconductor device, comprising: an insulating substrate having a surface on which a first SiO<sub>2</sub> film is formed; and a single-crystal silicon thin film substrate bonded to the insulating substrate, the single-crystal silicon thin film substrate having a substantially uniform thickness and a substantially damage-free surface, wherein

the single-crystal silicon thin film has bonded thereto substrate includes a single-crystal silicon thin film and a second SiO<sub>2</sub> film formed on a surface thereof,

the surface of the insulating substrate on which the first SiO<sub>2</sub> film is formed is bonded with the surface of the single crystal silicon substrate on which the second SiO<sub>2</sub> film thereby bonding the single-crystal silicon thin film to the insulating substrate is formed, and

the bonded single-crystal silicon thin film substrate is disposed on only part of the insulating surface of the single crystal silicon substrate on which the first second SiO<sub>2</sub> film is formed.

Claim 52 (Currently Amended): The semiconductor device as defined in claim 51, further comprising:

transistor elements formed from provided on the single-crystal silicon thin film substrate.

Claim 53 (Previously Presented): The semiconductor device as defined in claim 52, wherein the transistor elements are arranged such that, from an insulating substrate side, a gate electrode, a gate insulating film, and the single-crystal silicon thin film are formed in this order.